MSG1200-GEC

MSG1200-GEC | SOHO/Home gateway

Product Overview

The MSG1200-GEC is highly integrated Gigabit Ethernet FTTH wireless gateway, which is designed to interoperate with various Ethernet Switches from major vendors to meet the worldwide residential market requirements. By integrating routers, switches, firewalls, VPN, WLAN and USB interface for 3G in one single device, MSG1200-GEC SOHO/Home Gateway is simple to use and manage for Home and SOHO users. The gateway provides the performance required for concurrent services, including firewall, content filtering, encryption for VPNs, VOIP, IEEE 802.11 b/g/n for mobility, 3G dongle uplink for primary or backup and quality-of-service (QoS) features for optimizing voice and video applications at broadband speeds. Easy deployment and centralized management features help enable SOHO/Home users or service providers to deploy the Raisecom MSG1200-GEC SOHO/Home Gateway, and greatly reduce both the equipment and management cost.

Highlights

- Combo GE interfaces uplink
- USB interface for 3G dongle uplink
- Support 802.11 b/g/n
- Support IEEE802.1q, 802.1p and TOS/Diff-serv
- Support L2TP/IPSEC/SSL VPN
- Firewall, Content filtering, Anti-DoS, Anti-ARP
- RIP v1/v2, OSPF, IPv4/IPv6
- Support Routing, NAT/NAPT, DHCP, DNS/DDNS, IEEE802.11 b/g/n,PPPoE
- Standard alone and wall-mounted design
- Managed via Web management, TR069, SNMP, Telnet, CLI

Specifications

Interface/Modules:

WAN: GE combo port:1x100/1000 Mbps GE SFP port,1x10/100/1000 Mbps GE RJ45 port

LAN: 1x10/100/1000 Mbps GE RJ45 port
     3x10/100Mbps FE RJ45 ports

USB interface: 1xUSB 2.0 interface for 3G dongle

Console: 1 x RJ45 port

Voice: 2xFXS RJ11 ports

WLAN: built-in Antennas

Dimensions: 198(L)× 163(W) ×35(H) mm

Weight: 0.39Kg

Operating temperature: 0 to 55°C

Storage temperature: -25 to 70°C

Humidity: 10% to 95%, non-condensing

Power supply (input Voltage):

External AC to DC power adapter, input:100-240V AC 50/60HZ output:12VDC 1Amp

Power consumption: <12W

WAN

- Support route, bridge, mix three modes
- Duplex and speed configurable

LAN

- Support Fast Ethernet access
- Support standard L2 switch functions
- Support Port statistical functions
- Support MAC address binding

VLAN

- IEEE802.1q(VLAN)
- Support Access and trunk port types
- VLAN IP configurable
- SSID can be distributed into different VLAN

3G

- 3G uplink to the internet
- USB interface for 3G dongle uplink as the primary or backup with wan connection

Routing

- Static Routing:
  Support equivalent routing
  Support Static routing priority
  Support configuration weights
- Policy Routing:
  Support according to the incoming interface, the source address of an object, the object of the destination address and service objects, time object matching strategy
- OSPF:
  Support broadcast and point-to-point two types of network
  Support OSPF packet reception and transmission
  Support security certification
  Support the CIDR Classless Inter-Domain Routing
  Support OSPF certification
  Support routing introduced and redistributed
- RIP
  Support RIP v1,v2
  Support RIP equivalent routing
  Support split horizon and poison reverse
  Support route summarization
  Support routing introduced and redistributed
- Load balancing
  Support through equal-cost routes to achieve load balancing

NAT

- Support NAPT
- Support one-to-one address mapping
- Support port mapping and virtual server

functionality
- Support DNS/FTP/H.323/SIP

Page Push

- Support global push function
- Support interface push function

EOIP

- Three ways to establish a tunnel
  At the same time set the tunnel ID and peer IP
  Client side: set the tunnel ID and the server IP
  Server side: set the tunnel ID, without setting IP of client side
- Management function
  Support the establishment of the tunnel;
  Support binding the local interface and remote IP
  Support deleting tunnels
  Support checking information of tunnels

Voice Features

- Support H.248 version: RFC 3015,3425,ITU-T H.248.v1/v2/v3
- Support RTP / RTCP: RFC 3550 ,RFC 3551
- Support voice CODECs like G.711, G.726, G.729AB, BV16,ILBC, T.38, and etc
- G.168 line echo cancellation with programmable tail
- DTMF tone detection and generation;
- Support RFC 2833/RFC 2198/Info
- Fax/Modem detection and pass-through and T.38

VoIP & Telephony Bonus Services

- Support SIP (RFC3261), SDP (RFC2327, RFC3264) as well as both TCP and UDP transport
- Support User Agent Client (UAC) - User Agent Server (UAS) call, or proxy call routing
- Support SIP and telephone URL addressing
- Support in-band DTMF tone sending/receiving and out-of band DTMF signaling with RTP as per RFC2833
- Bonus services include:
  - Call Forwarding: Unconditional, No Response, On Busy
  - Call waiting: Force Busy, Pickup and Release Old,

Pickup and

Put Old on Hold, Switch between two calls

- Call Transfer, Call back busy subscriber, Call Back last number
called (call return)

- Enquiry service

- Three way conference

- Provisioning through TFTP client with configuration profile

Reliability

- Link Backup

  Two or more links backup

  Traffic load balancing of WAN interface

- Link status detection

  Support IP Address detection and configuration of static route status according to checked results

  Can be used as Link switch testing tool

Qos

- Bandwidth management

  Layer 3 interface-based bandwidth management

  IP-based Bandwidth Management

  bandwidth limitation

  Dynamic bandwidth adjustment

- Traffic identification and scheduling

  Scheduling algorithm: SP,WRR,SP+WR

  ToS/Diff-Serv Session limitation

- Session limitation

  Total Session number limit

  Session limit based on IP-Add

  Session limit based on physic interface

Security features

- Layer 2 Tunneling Protocol (L2TP)

- Secure Sockets Layer (SSL) VPN for secure remote access,

- SSL 2.0/SSL3.0/TLS1.0

- Maximum of up to 100 IPSec VPN Tunnels

- Hardware-accelerated DES, 3DES, AES 128, AES 192, and AES 256

- Authentication (SHA-1, MD5)

- Manual Key, IKE, PKI (X.509)

- Zone-based policy firewall:

- Stateful inspection transparent firewall

- Dynamic and static port security

- Advanced application inspection and control

- Content filtering

- ACLs

- Anti-DoS

- Anti-ARP

IP features

- IGMP Proxy/Snooping

- Dynamic Host Configuration Protocol (DHCP) server, relay, and client

- Domain Name System (DNS) Client, Proxy

- Dynamic Domain Name System (DDNS)

- Access control lists (ACLs)

- Supports IPv4/IPv6

- Supports PPPoE

Management features

- Web management

- TR069

- Telnet

- SNMPv1/v2/v3

- CLI

Standard Compliance

- IEEE802.3
- IEEE802.3ah
- IEEE802.3 10BASE-T
- IEEE802.3ab 1000BASE-T
- IEEE802.3u 100BASE-T
- IEEE802.3z 1000BASE-X
- IEEE802.1W
- IEEE802.3ad
- IEEE802.3x
- IEEE802.1p
- IEEE802.11b
- IEEE802.11g
- IEEE802.11n
- IEEE802.1q
- TR069

Ordering Information
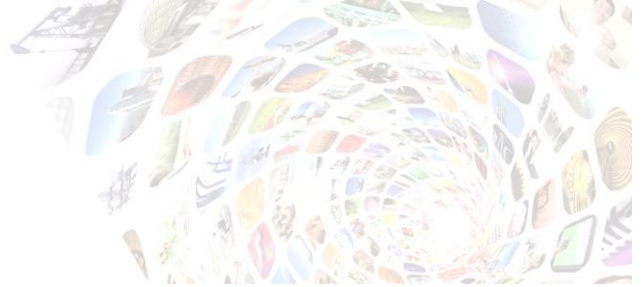
Model	Description
MSG1200-GEC	WAN: Combo GE ports uplink:1*10/100/1000Mbps electrical GE RJ45 port and one GE optical port for additional SFP; 1*USB2.0 for external 3G dongle; LAN: 1*10/100/1000Base-T+3*10/100Base-T ;1*WLAN(IEEE802.11b/g/n) with built-in Antenna ;external AC to DC power adaptor: input: 100-240V AC 50/60 Hz output:12 VDC 1Amp;